						ATTORNEY	··· 000×	ET NO.
DIVISION-	CONTINUAT	IUNPROGR	am applica	NOIT	TRANSMII IAL F	ĺ	3 000.	
OCKET NU		NTICIPATED	CLASSIFICATION	ОИ	PRIOR APPLICATI	ON:	_	
	lo		SUBCLASS		EXAMINER	_	1	UNIT
P-2127-40					FETSUGA, R.		3105	
			1					
		f Patents and	IN	N-PA				
This is a're	quest for fili	ng a XX con	tinuation 🗍	divisio	onal application un	der 37 CFR 1.60,	of pendi	ng prior a
applicatio	n serial no. <u>C</u>	8/432,2	45 filed on	A	PRIL 27	19 95	_, of _	
GEO	RGE TASE	I		for	TOILET DRA	AIN PLUNGER	ξ	
origina applica further tion ar willful 1001 o	lly filed. I he ation serial no r that all state ad belief are b false stateme of Title 18 of	ereby verify the contents made believed to be ents and the little United S	as origin as origin herein of his o true; and frut ke so made are	ally fi wn kn ther the puni	prior application, i ers are a true copy led on owledge are true are at these statements shable by fine or in such willful false st	of the latest invented that all statemes were made with the opposition of both the control of the opposition of the oppo	19 nts made the know oth, unde	d prior, and c on informa- vledge that cr section
		<del></del>			N. H	(4) P	(5) CX	lculations
Claims	(1) For	(2) NUR	er filed	(3	) Number extra	(4) Rate		1001010113
	Total Claims		- 20=	(4)		X \$22	\$	
	Independent Claims		- 3=			X \$74		
122 (12 12 12 12 12 12 12 12 12 12 12 12 12 1	Multiple De	pendent Clai	л(s) (if appl	icəbl	٤)	+ \$230		
					Ba:	sic Fee	+-	\$375.00 XXXXX
pulling stollage.	HOME AND STREET	्राम्यः सारद्वारः क्षात्रः क्षात्रः क्षा	1111 ( *** 1129 *** 1		0		<del>                                     </del>	100 (Y
	Sold Spinson			4. 40 e e e e e e e e e e e e e e e e e e	2 mo. late	e tee		190,00
2.11274sted	Reduction t	y 1/2 for fi	ling by small it must be fil	enti	ty (Mote 37 CFR 1.	9, 1.27, 1.28)	_	
TOP SELVE ASSESSED	77 - 78 - 78 - 28 - 28 - 28 - 28 - 28 -		nine transfer of the contract	avallara is youlka	vex.	tional Fee	\$5	65.00
2 [3]		sioner is here	y authorized	to cha	rge any fees which	may be required,	or credit	any over-
					. A duplica			
3.	A check in the	ne amount of	\$	<del> </del>	is enclosed.			
4. 🗆	of the prior :	s application application be or filing purp		ng the	tiling fee. (At leas	t one original inde	pendent	claim must
5.	Amend the s	pecification b	y inserting be	fore th	ne first line the sen	tence: This applic	ation is	a
	ontin 🗌	uation, 🗌 d	ivision, of app	licatio	on serial no.	, file	d	
6.	application : filing in pric	as of the filing	g date accorded file. (May onl	d this	application to this application. A dupused if signed by pe	licate copy of this	s sheet is	enclosed for

informal  a. (Mew Morad Marwings are enclosed.  b.   Priority of application serial no.   in   is claimed under 35 U.S.C. 119,   filed on   in   is claimed under 35 U.S.C. 119,   filed   in   filed   filed   in   filed   fil		informal
is claimed under 35 U.S.C. 119.    The certified copy has been filed in prior application serial no.		·
The certified copy has been filed in prior application serial no.	b. L	
filed		(country) is claimed under 35 U.S.C. 119.
7. The prior application is assigned of record to  8. A preliminary amendment is enclosed.  9. XXA verified statement claiming small entity status is enclosed in parent application  8-rial Number 08/432,245 . filed April 27, 1995 and is still proper.  10. Also enclosed  11XXMhe power of attorney in the prior application is to  JOHN J. POSTA, JR.  5850 CANOGA AVE., SUITE 400  WOODLAND HILLS, CA 91367  a.XX The power appears in the original papers in the prior application.  b. Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.  c. Address all future communications: (May only be completed by applicant, or attorney or agent of record)  JOHN J. POSTA, JR.  5850 CANOGA AVE., SUITE 400  WOODLAND HILLS CA 94367  JOHN J. POSTA, JR.  6850 CANOGA AVE., SUITE 400  WOODLAND HILLS CA 94367		☐ The certified copy has been filed in prior application serial no.
8. A preliminary amendment is enclosed.  9. XXA verified statement claiming small entity status is enclosed in parent application  Serial Number 08/432,245		filed
9. XXA verified statement claiming small entity status is enclosed in parent application  Serial Number 08/432,245 , filed April 27, 1995 and is still proper.  10. Also enclosed  11XXMhe power of attorney in the prior application is to  JOHN J. POSTA, JR.  5850 CANOGA AVE., SUITE 400  WOODLAND HILLS, CA 91367  axx The power appears in the original papers in the prior application.  b. Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.  c. Address all future communications: (May only be completed by applicant, or attorney or agent of record)  JOHN J. POSTA, JR.  5850 CANOGA AVE., SUITE 400  WOODLAND HILLS, CA 91367  JOHN J. POSTA, JR.  5850 CANOGA AVE., SUITE 400  WOODLAND HILLS, CA 91367  JOHN J. POSTA, JR.  5850 CANOGA AVE., SUITE 400	7. 🗌 The	prior application is assigned of record to
Serial Number 08/432,245 . filed April 27, 1995 and is still proper.  10. Also enclosed  11 Also enclosed  12 Also enclosed  13 Also enclosed  14 Also enclosed  15 Also enclosed  16 Also enclosed  17 Also enclosed  18 Also enclosed  19 Also enclosed  19 Also enclosed  10 Also enclosed  11 Also enclosed  11 Also enclosed  11 Also enclosed  12 Also enclosed  12 Also enclosed  13 Also enclosed  14 Also enclosed  14 Also enclosed  15 Also enclosed  16 Also enclosed  17 Also enclosed  18 Also enclo	8. 🗌 A pr	eliminary amendment is enclosed.
11XXAhe power of attorney in the prior application is to  JOHN J. POSTA, JR.  5850 CANOGA AVE., SUITE 400  WOODLAND HILLS, CA 91367  axx The power appears in the original papers in the prior application.  b. Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.  c. Address all future communications: (May only be completed by applicant, or attorney or agent of record)  JOHN J. POSTA, JR.  5850 CANOGA AVE., SUITE 400  WOODLAND HILLS CA 94367  WOODLAND HILLS CA 94367		
JOHN J. POSTA, JR.  5850 CANOGA AVE., SUITE 400  WOODLAND HILLS, CA 91367  2XX The power appears in the original papers in the prior application.  b. Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.  c. Address all future communications: (May only be completed by applicant, or attorney or agent of record)  JOHN J. POSTA, JR.  5850 CANOGA AVE., SUITE 400  WOODLAND HILLS CA 91367  WOODLAND HILLS CA 91367	10. 🗌 Also	enclosed
MOODLAND HILLS, CA 91367  2XX The power appears in the original papers in the prior application.  b. Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.  c. Address all future communications: (May only be completed by applicant, or attorney or agent of record)  JOHN J. POSTA, JR.  5850 CANOGA AVE., SUITE 400  WOODLAND HILLS CA 9/1367  U1796  (sternture)  Address of signator: inventor(s) filed under \$1.34(a)	11X <b>X</b> AThe	
The power appears in the original papers in the prior application.  b. Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.  c. Address all future communications: (May only be completed by applicant, or attorney or agent of record)  JOHN J. POSTA, JR.  5850 CANOGA AVE., SUITE 400  WOODLAND HILLS CA 9/367  (date)  Address of signator: inventor(s) filed under \$1.34(a)	*****	
The power appears in the original papers in the prior application.  b. Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.  c. Address all future communications: (May only be completed by applicant, or attorney or agent of record)  JOHN J. POSTA, JR.  5850 CANOGA AVE., SUITE 400  WOODLAND HILLS CA 9/1367  (date)  Address of signator: inventor(s) filed under \$1.34(a)	,	WOODLAND HILLS, CA 91367
MOODLAND HILLS CA 9/1367  Woodland Hills CA 9/1367  U17/96  (structure)  Address of signator: inventor(s)   filed under \$1.34(a)	b. <u>C</u>	Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.  Address all future communications: (May only be completed by applicant, or attorney or agent
WOODLAND HILLS CA 9/1367  U124 96  (date)  Address of signator: inventor(s)  assignee of complete interes		JOHN J. POSTA, JR.
Address of signator: inventor(s) filed under \$1.34(a)	•	
Address of signator: inventor(s) filed under § 1.34(a)		5850 CANOGA AVE., SUITE 400
		WOODLAND HILLS CA 9/1367
	)	WOODLAND HILLS CA 9/1367  U12496  (date)  Address of signator: inventor(s) inventor(s) filed under \$1.34(a)  = 225 ignee of complete interes
	)	WOODLAND HILLS CA 9/1367  U12496  (date)  Address of signator: inventor(s) inventor(s) filed under § 1.34(a)  = 225 ignee of complete interes
	)	WOODLAND HILLS CA 9/1367  U12496  (date)  Address of signator: inventor(s) inventor(s) filed under \$1.34(a)  = 225 ignee of complete interes
	,	WOODLAND HILLS CA 9/1367  U12496  (date)  (signature)  Address of signator: inventor(s)  passignee of complete interies



# IMPROVED TOILET AND SINK DRAIN PLUNGER

### IDENTIFICATION OF RELATED APPLICATION

This application is a continuation-in-part of U. S. Patent Application No. 08/432,245, filed on April 27, 1995, and entitled "Improved Toilet Drain Plunger",

## BACKGROUND OF THE INVENTION

### FIELD OF THE INVENTION

The present invention generally relates to water and sewage drain decloggers and more particularly to an improved type of toilet and sink drain plunger.

## PRIOR ART

The usual type of plunger used for declogging sinks and toilet drains and the like comprises a vertical wooden or metal handle, to the bottom of which is secured an inverted thick deformable rubber or plastic cup. The cup is initially very difficult to compress down by the handle, requiring considerable force. It then characteristically suddenly gives way, causing a sudden surge of air to pass into the drain over which it is fixed. This frequently results in loosening of the drain

pipe connections and water leakage therefrom. Considerable force is then needed to pull the handle up to provide suction force on the drain. The seal between the bottom end of the cup and the area around the sink or toilet drain hole is frequently inadequate and the cup may slip about over the area, reducing the suction afforded by the cup.

Toilets and sinks have various curvatures in the area surrounding the drain hole, making difficult the proper seating of conventional drain plungers, especially toilet drain plungers such as the above-described cup plunger. The most efficient toilet and sink drain plunger available is that shown in U. S. Patent No. 4,745,641. But even that plunger is unable to seat securely over and hold in place around curtain toilet drain holes, due to the curved configuration of the toilet around the drain hole.

Accordingly, there is a need for an improved type of toilet and sink drain plunger which can seat securely over or in the toilet or sink drain hole, regardless of the curvature of the area around the drain hole. Such plunger should be simple, efficient, capable of being easily fabricated and used and be inexpensive and durable.

### SUMMARY OF THE INVENTION

The improved toilet and sink drain plunger of the present invention satisfies all the foregoing needs. The plunger is adapted for use with a wide variety of sizes and shapes of sinks and toilets. Its bottom end can fit into or around the drain hole and provide an improved seal for improved declogging of the drain hole. Moreover, the plunger operates smoothl and with little effort. It avoids the sudden air surge through the drain pipe which can loosen it. The improved plunger is substantially as set forth in the ABSTRACT OF THE DISCLOSURE.

Thus, the plunger comprises an upstanding preferably vertical handle, to the lower end of which is permanently or releasably secured a bellows having a plurality of vertically stacked horizontally extending integrally interconnected pleats. The plunger further includes drain hole sealing means in the form of a vertically staked series of integral drain seals connected to and/or forming part of the lower portion of the bellows. The seals and bellows can be formed in a single molding operation from plastic, rubber or the like. The handle can also be formed in the same molding operation, if desired. Accordingly the entire plunger can be of unitary construction. For such purposes, the portion of the mold which molds the handle can have an entry port which introduces into that portion of the mold a plastic which,

when molded, forms a rigid handle integral with the plunger bellows, while the bellows portion of the mold can have a separate entry port which introduces into the mold a plastic which is flexible when molded but which integrally joins to the handle.

The seals are of progressively smaller diameter from top to bottom of the series and are of bulbous ring configurations, except that the bottommost seal has a depending portion which has a short vertical cylindrical configuration. The seals effect their sealing on their external surface which are on the outer surface of the plunger. The seals and bellows have controlled flexibility and resiliency for pre-selected deformability to improve their sealing and pumping efficiency.

Various other features of the improved toilet and sink drain plunger of the present invention are set forth in the following detailed description and accompanying drawings.

 $\mathbf{2}$ 

 $\mathbf{2}$ 

0

### DRAWINGS

Figure 1 is a schematic side elevation, partly broken away, of a preferred embodiment of the improved toilet and sink drain plunger of the present invention, showing the plunger in a standing resting condition;

Figure 2 is a schematic side elevation of the plunger of Figure 1, shown with the bellows of the plunger fully collapsed, that is, compressed, such as occurs for the downward stroke when the plunger is being used for declogging a toilet or sink drain;

Figure 3 is an enlarged schematic fragmentary cross-section of the sealing portion of the plunger, illustrating the curvatures of the seals;

Figure 4 is a schematic top plan view of a plurality of toilets a, b, c, d and e, illustrating different toilet bowl openings into which the improved drain plunger of the present invention can fit; and,

Figure 5 is an enlarged, fragmentary, schematic side elevation, partly in cross-section, of the improved drain plunger of Figs 1-3, showing the plunger rings in sealing contact with the opening in a kitchen sink.

### DETAILED DESCRIPTION

FIGURES 1-3:

2/Ī

Now referring more particularly to Figures 1-5 of the drawings, a preferred embodiment of the improved toilet and sink drain plunger of the present invention is schematically depicted therein. Thus, plunger 10 is shown, which comprises an elongated vertical handle 12, the upper end of which is formed into an expanded knob 14 adapted to comfortably rest in the palm of the hand of the plunger user. Preferably, handle 12 is hollow, having a central space 16 therein to reduce its weight, and can, if desired, be formed of modable, rigid, light weight plastic such as high density polyethylene plastic or the like.

The bottom portion 18 of handle 12 may include external integral threads 20 so that handle 12 can be releasably connected to the bellows 22 of plunger 10.

Bellows 22 is generally frusto-conical in shape, has a central space 24 extending therethrough defined by a closed transversely extending top 26 which preferably threadably receives the bottom portion 18 of handle 12, sidewalls 28 integral with top 26 and depending therefrom, and a bottom portion 30 integrally connected to top seal 32.

Sidewalls 28 are formed into a plurality of integral horizontally extending vertically stacked interconnected pleats 34. Pleats 34 are of progressively larger diameter and preferably progressively greater flexibility from the uppermost to the lowermost of said pleats 34, so that pleats 34 easily and smoothly compress during use of plunger 10 and efficiently nest together, as shown in Figure 2 when bellows 22 is collapsed by pushing down on handle 12, avoiding the sudden air surging characteristic of conventional toilet drain plungers. If desired, the wall thickness of the pleats 34 can vary, for example, decreasing from the uppermost pleats 34 to the lowermost pleats 34 to control their flexibility.

Bellows 22 is formed of plastic or rubber, with the pleats 34 being flexible and resilient and exhibiting elastic memory. Bellows 22 can be formed in a single molding operation from, for example, low density polyethylene plastic mixed with, for example, varying proportions of copolymer of ethylene and vinyl acetate as the means to control the relative flexibility and resiliency of the various portions of bellows 22. Thus, top 26 is relatively less flexible while pleats 34 are relatively more flexible. During the molding operation a mixture of the plastics which will form the less flexible top 26 can be introduced into the mold and then a plastic mixture which results in the more flexible pleats 34 can be introduced into the mold, so that in the

single molding operation the bellows that molded will exhibit the required differences in flexibility between top 26 and pleats 34. This is a known molding procedure.

Seal 32 is ring-shaped and relatively less flexible than plate 34 due to its size and shape and/or wall thickness and also, if required, due to a change in the composition of the plastic mixture from that of the pleats 34. Seal 32 has an annular wall 35 which curves downwardly and inwardly from its point of connection with the underside of the lowermost of pleats 34 to its point of connection with the upper end of the second seal 36 of plunger 10.

Seal 36 is also ring-shaped but relatively more bulbous and is longer than seal 32, curving continuously downwardly to its narrowest diameter at its point of connection with the lowermost third seal 38.

Seal 38 is relatively short in height and also ring-shaped in its upper portion 40, from the bottom of which vertically depends its lower portion 42, which is in the form of a short thin vertical cylindrical wall 44 with a horizontal bottom end 46 which enables plunger 10 to rest in the upright position of Figure 1. Portion 40 has a diameter slightly greater than that of the lower end of seal 36, while portion 32 is of smaller diameter than portion 40. Seals 36 and 38 are similar in flexibility and construction to seal 32,

that is, less flexible than bellows 22.

Seal 32 is of greater diameter than seal 36, while
the maximum diameter of seal 36 is greater than that of
seal 38. Seals 32, 36 and 38 provide their sealing effect
on their external surfaces which are on the outer surface
of plunger 10. With this arrangement, plunger 10 can be
used to efficiently seal sink and toilet drain holes of various
sizes and shapes. Seals 32, 36 and 38 can be formed in a
single molding operation. Moreover, space 24 extends down
through the interior of seals 32, 36 and 38. Seals 32, 36
and 38 can be formed of the same materials as bellows but of
different relative proportions of those materials than for
bellows 22 so as to control their flexibility. Moreover,
their size, shape and wall thickness contribute to their
degress of flexibility.

Wall 44 can be placed around a drain hole or within it.

The edges of the drain hole can abut the underside of portion 40, seal 36 or seal 32, depending on the size of the drain hole. Seals 32, 36 and 38 are sufficiently deformable to increase their sealing effect as they are pressed against the drain hole edges during use of plunger 10. In Fig. 5, it is seen that when plunger 10 is inserted into a drain hole, in this instance, a stepped kitchen sink drain hole 50 defined by sink 52, bulbous curved seal 36 is deformed inwardly by sink ledge 54 at point 56 forming a tight seal

therewith, while depending vertical wall 44 strikes ledge 58 at a lower point 62, again acting as a seal. The effective sealing thus provided by plunger 10 in kitchen sink drain hole 50 enables plunger 10 to function very smoothly and efficiently to unclog drain hole 50. Fig. 4 shows an array of different toilet bowls 64, 66, 68, 70 and 72 in respectively, (a), (b), (c), (d), and (e), all of which can be effectively sealed and unclogged by plunger 10.

Accordingly, plunger 10 is adapted for efficient use with a variety of sizes and shapes of sink and toilet bowls and drain holes. Plunger 10 can be used in the mode of being disposed around the perimeter of the drain hole. But in most cases, plunger 10 is used by inserting its lower end into the drain hole, with the appropriate sized seal 32, 36 or 38 and in some instances wall 44 abutting the edges of the drain hole to efficiently seal it. Plunger 10 avoids the difficulties inherent in trying to fit a plunger cup around the curved surfaces defining the entrance to a toilet or sink drain hole.

Further advantages of the improved toilet and sink drain plunger of the present invention are as set forth in the foregoing. Various modifications, changes, alterations and additions can be made in the improved plunger of the present invention, its components and parameters. All such modifications, changes, alterations and additions as are

within the scope of the appended claims form part of the present invention.

#### WHAT IS CLAIMED IS:

1. An improved toilet and sink drain plunger, said plunger comprising, in combination:

a) an elongated generally upright handle;

b) a generally frusto-conical bellows having a top secured to the lower end of said handle, said bellows including sidewalls depending downwardly and outwardly from said top and defining therewith a central space, said sidewalls comprising a plurality of integral, vertically stacked, interconnected, horizontally extending pleats capable of nesting during compressing of said byllows to

capable of nesting duri
a collapsed state; and,

c) toilet and sink drain hole sealing means integral with the lower end of said bellows, said sealing means being disposed on the outer surface of such plunger, said sealing means comprising, in combination,

i. an upper annular curved first ring depending from the lowermost of said pleats, spaced inwardly from the outer periphery of said lowermost pleat and cooperating therewith to form on its outer surface a first drain hole seal;

- iii. a third bottom ring secured to the underside of said second seal, smaller in diameter than said second seal and defining the lower end of said plunger, the outer surface of said bottom ring forming a third seal, said seals being integral with each other and said bellows and having a central opening therein communicating with said bellows space.
- 2. The improved toilet and sink drain plunger of Claim l wherein said plunger bellows and seals are of unitary construction, having been integrally joined together in a single molding operation.
- 3. The improved toilet and sink drain plunger of Claim 2 wherein said bellows and seals are of flexible resilient plastic.
- 4. The improved toilet and sink drain plunger of Claim 3 wherein said handle is detachable from said bellows and also of plastic.
- 5. The improved toilet and sink drain plunger of Claim 3 wherein said handle is integral with said bellows, of plastic

 $\mathcal{O}$ 

K

N .

 $\mathbf{2}$ 

and formed with said bellow and seals in a single modling operation.

- 6. The improved toilet and sink drain plunger of Claim 1 wherein said bottom seal includes an upper bulbous annular ring portion and a lower portion having a short vertical sidewall of smaller diameter than said upper portion.
- 7. The improved toilet and sink drain plunger of Claim 6 wherein each said ring includes an inwardly and downwardly curved lower part adapted to sealing engage a toilet or sink drain hole and wherein said second ring is of substantially greater heighth than said first and third rings and of a continuously curved bulbous shape with its lower end of less diamter than its upper end.
- 8. The improved toilet and sink drain plunger of Claim 7 wherein the lower end of said plunger is horizontal to enable said plunger to rest in an upright position.
- 9. The improved toilet and sink drain plunger of Claim 8 wherein said pleats are more flexible than said seals.
  - 10. An improved toilet and sink drain plunger comprising, in combination:
    - a) a handle;
    - b) a bellows which includes a plurality of horizontally

Ŕ

extending pleats; and,

- c) Three toilet and sink drain hole seals disposed on the outside of said plunger in horizontally extending vertically stacked relation, said three seals being ring-shaped and of progressively smaller diameter from the uppermost to the lowermost of said three seals, each said seal having a downwardly and inwardly curved external sealing surface.
- 11. The improved toilet and sink drain plunger of Claim 10 wherein said handle is vertical and at the upper end of said plunger, wherein said bellows is secured to the bottom of said handle and depends therefrom and wherein said seals are integral with the lower end of said bellows.
- 12. The improved toilet and sink drain pluner of Claim 11 wherein said handle, bellows and seals are of plastic.

Hay p3

08/637894

## ABSTRACT OF THE DISCLOSURE

3 4

1

2

5 6

7

8

10 11

12

14

13

15 16

17

18 19

2021

22

2324

25

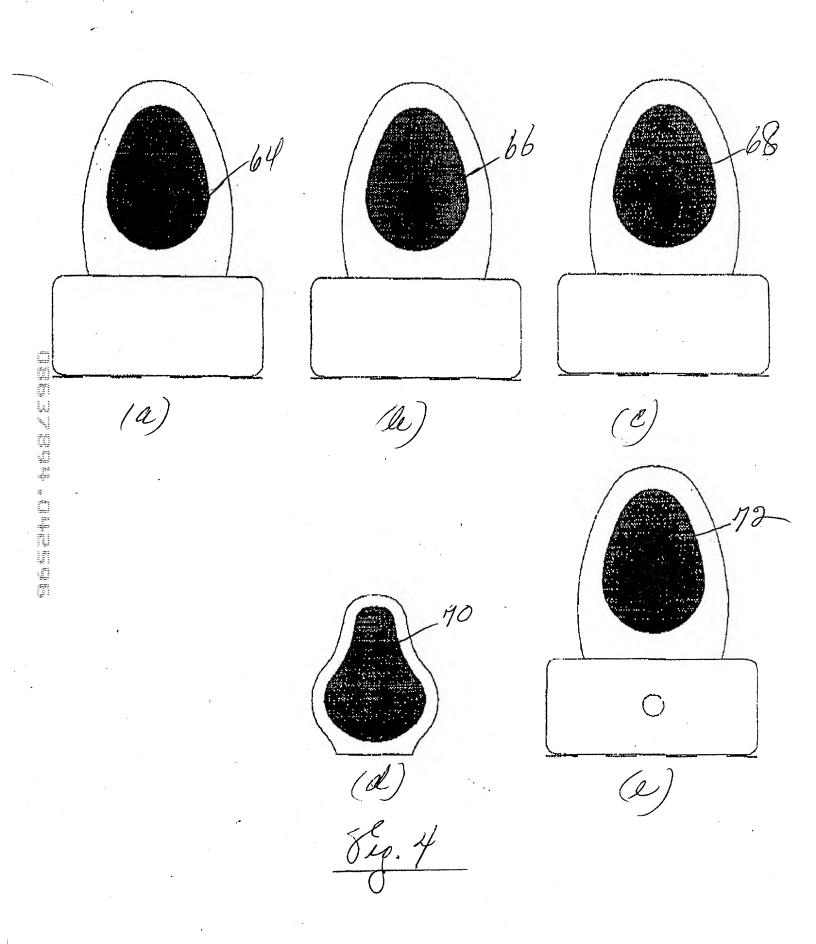
**26** 

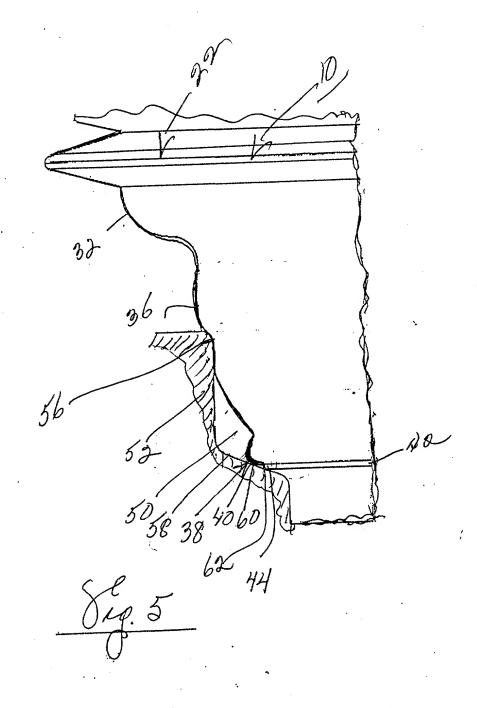
27

28

The present toilet and sink drain plunger seals either around or in a toilet or sink drain hole despite the hole's size, configuration and location. The plunger includes an elongated upstanding handle connected to the top of a depending, preferably frusto-conical, open bottomed bellows in the sidewalls of which are formed a vertically stacked series of interconnected horizontal pleats. The plunger further includes a series of toilet drain hole seals connected to each other and to the bottom of the bellows to form a unitary whole depending below the bellows. The seals are of progressively smaller size from the uppermost to the lowermost and all feature inwardly and downwardly curved sealing The seals are rings or doughnuts molded into the surfaces. The bottommost seal bears a short vertical plunger body. small diameter annular wall depending therefrom and which acts both as a seal and a seat for the plunger. plunger can be formed in a single plastic molding operation or, if desired, in separate molding operations for the handle and remainer of the plunger. The plunger is efficient, light in weight, inexpensive and durable.

.38 .





AIL ROOM		
APR 25		
ୀତିର୍ବ 😹		
PADEMART	07.00.7 71.04	
APPlicant or Patentee:		
Serial or Patent No.:		
Filed or Issued:		
For: IMPROVED TOILET AND	SINK DRAIN PLUNGER	
VERIFIED STATEMENT STATUS (37 CFR 1.9(f)	(DECLARATION) CLAIMING : ) and 1.27(b))) - INDEP	ENDENT INVENTOR
As a below named invindependent inventor as defined reduced fees under section Code, to the Patent and Transcripted IMPROVED TOILET	41(a) and (b) of Title ademark Office with reg	for purposes of paying 35, United States ard to the invention
(x) the specification		
	l no.	, filed
( ) application serial ( ) patent no:	icanod	
( ) patent no:	, granted, conveyed or	lineared and am under
no obligation under contraction rights in the invention as an independent inventor the invention, or to any contraction of the invention of th	ct or law to assign, gr n to any person who cou under 37 CFR 1.9(c) if oncern which would not	ant convey or license, ld not be classified that person had made qualify as a small
	n or organization to wh	ich I have assigned,
Each person, concert		
Each person, concern granted, conveyed, or licer or law to assign, grant, co is listed below:	nsed or am under an oblonvey, or license any r	igation under contract ights in the invention
granted, conveyed, or licer or law to assign, grant, co is listed below:	onvey, or license any r	ights in the invention
granted, conveyed, or licer or law to assign, grant, co is listed below: (X) no such person, co	onvey, or license any r oncern, or organization	ights in the invention
granted, conveyed, or licer or law to assign, grant, co is listed below: (X) no such person, co () persons, concerns	onvey, or license any r oncern, or organization	ights in the invention
granted, conveyed, or licer or law to assign, grant, co is listed below: (X) no such person, co () persons, concerns FULL NAME ADDRESS	onvey, or license any roncern, or organization or organizations liste	ights in the invention d below
granted, conveyed, or licer or law to assign, grant, co is listed below: (X) no such person, co ( ) persons, concerns FULL NAME ADDRESS	onvey, or license any roncern, or organization or organizations liste	ights in the invention d below
granted, conveyed, or licer or law to assign, grant, co is listed below: (X) no such person, co ( ) persons, concerns FULL NAME ADDRESS	onvey, or license any roncern, or organization or organizations liste	ights in the invention d below
granted, conveyed, or licer or law to assign, grant, consisted below:  (X) no such person, concerns  () persons, concerns  FULL NAME ADDRESS  () INDIVIDUAL () S  FULL NAME ADDRESS	onvey, or license any roncern, or organization or organizations liste	ights in the invention  d below  ( ) NONPROFIT ORGANIZATION
granted, conveyed, or licer or law to assign, grant, constituted below:  (X) no such person, concerns  FULL NAME ADDRESS () INDIVIDUAL () S  FULL NAME ADDRESS () INDIVIDUAL () S	onvey, or license any roncern, or organization or organizations liste	ights in the invention  d below  ( ) NONPROFIT ORGANIZATION
granted, conveyed, or licer or law to assign, grant, consisted below:  (X) no such person, concerns  FULL NAME ADDRESS () INDIVIDUAL () S  FULL NAME ADDRESS () INDIVIDUAL () S  FULL NAME ADDRESS () INDIVIDUAL () S  FULL NAME ADDRESS	onvey, or license any roncern, or organization or organizations liste	ights in the invention  d below  ( ) NONPROFIT ORGANIZATIO
granted, conveyed, or licer or law to assign, grant, co is listed below:  (X) no such person, concerns  FULL NAME ADDRESS () INDIVIDUAL () S  FULL NAME ADDRESS () INDIVIDUAL () S  FULL NAME ADDRESS () INDIVIDUAL () S	onvey, or license any roncern, or organization or organizations liste SMALL BUSINESS CONCERN SMALL BUSINESS CONCERN	d below  ( ) NONPROFIT ORGANIZATION  ( ) NONPROFIT ORGANIZATION
granted, conveyed, or licer or law to assign, grant, co is listed below:  (X) no such person, concerns  FULL NAME ADDRESS () INDIVIDUAL () S	onvey, or license any roncern, or organization or organizations liste SMALL BUSINESS CONCERN SMALL BUSINESS CONCERN uty to file, in this ap in status resulting in to paying, or at the tipor any maintenance fee	d below  ( ) NONPROFIT ORGANIZATION  ( ) NONPROFIT ORGANIZATION  ( ) NONPROFIT ORGANIZATION  ( ) NONPROFIT ORGANIZATION  plication or patent, loss of entitlement to me of paying, the due after the date on
granted, conveyed, or licer or law to assign, grant, co is listed below:  (X) no such person, concerns  () persons, concerns  FULL NAME ADDRESS () INDIVIDUAL () S  FULL NAME ADDRESS () INDIVIDUAL () S  FULL NAME ADDRESS () INDIVIDUAL () S  acknowledge the do notification of any change small entity status prior tearliest of the issue fee of which status as a small entity	onvey, or license any roncern, or organization or organizations liste SMALL BUSINESS CONCERN  SMALL BUSINESS CONCERN  SMALL BUSINESS CONCERN  Uty to file, in this ap in status resulting in to paying, or at the titor any maintenance fee tity is no longer approat all statements made at all statements made on in the statements made on in the full false statements imprisonment, or both, tes Code, and that such y of the application, a	d below  ( ) NONPROFIT ORGANIZATIO  plication or patent,  loss of entitlement to  me of paying, the  due after the date on  priate. (37 CFR 1.28(b))  herein of my own know-  formation and belief  tatements were made  and the like so made  under section 1001 of  willful false statements  ny patent issuing thereon
granted, conveyed, or licer or law to assign, grant, co is listed below:  (X) no such person, concerns  () persons, concerns  FULL NAME  ADDRESS  () INDIVIDUAL () S  FULL NAME  ADDRESS  () INDIVIDUAL () S  FULL NAME  ADDRESS  () INDIVIDUAL () S  I acknowledge the do notification of any change small entity status prior searliest of the issue fee of which status as a small entitled are true and that all are believed to be true; and with the knowledge that will are punishable by fine or state and person of the United State may jeopardize the validity or any patent to which this GEORGE TASH	onvey, or license any roncern, or organization or organizations liste SMALL BUSINESS CONCERN  SMALL BUSINESS CONCERN  SMALL BUSINESS CONCERN  Uty to file, in this ap in status resulting in to paying, or at the titor any maintenance fee tity is no longer approat all statements made at all statements made on in the statements made on in the full false statements imprisonment, or both, tes Code, and that such y of the application, a	d below  ( ) NONPROFIT ORGANIZATIO  plication or patent,  loss of entitlement to  me of paying, the  due after the date on  priate. (37 CFR 1.28(b))  herein of my own know-  formation and belief  tatements were made  and the like so made  under section 1001 of  willful false statements  ny patent issuing thereon
granted, conveyed, or licer or law to assign, grant, consisted below:  (X) no such person, concerns  () persons, concerns  FULL NAME  ADDRESS () INDIVIDUAL () S  I acknowledge the dunotification of any change small entity status prior earliest of the issue fee of which status as a small entity status as a small entity status as a small entity are believed to be true; and with the knowledge that will are believed to be true; are with the knowledge that will are punishable by fine or Title 18 of the United State may jeopardize the validity or any patent to which this GEORGE TASH  NAME OF INVENTOR	onvey, or license any roncern, or organization or organizations liste SMALL BUSINESS CONCERN  SMALL BUSINESS CONCERN  SMALL BUSINESS CONCERN  SMALL BUSINESS CONCERN  The status resulting in the paying, or at the time or any maintenance fee tity is no longer appropriate all statements made at all statements made on in the statements made on in the statements made on in the statements or both, tes Code, and that such y of the application, as vertified statement in the statement i	d below  ( ) NONPROFIT ORGANIZATIO  plication or patent,  loss of entitlement to me of paying, the due after the date on priate. (37 CFR 1.28(b)) herein of my own know- formation and belief tatements were made and the like so made under section 1001 of willful false statements ny patent issuing thereon s directed.